E1034

Multi-belt wireless safety kit

version 5 (ceinture_1.3.115)

Purpose

Bluetooth wireless contact sensors are positioned on the seats and belts to be secured.
This information is displayed on a touch screen on the dashboard, giving the driver a visual and audible warning of a possible unbelted passenger.

The system can cover up to 9 seats with 2 sensors each.
This kit includes sensors for a 3-seat bench.

Kit contents

- A stand-alone touchscreen
- USB/USB-C power cable
- A display stand
- 3 contact sensors (P DI)
- Mounting instructions

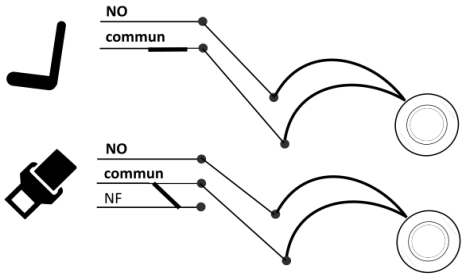
Wiring of sensors

The belt clip must be fitted with a mechanical contact with a NC (normally closed) status. The seat presence sensor shall have a NO contact (normally open).

- Activated when the belt is opened and closed.
- Activated when the seat is pressed down.

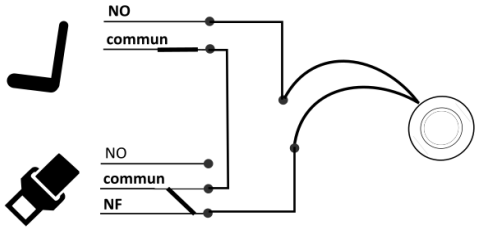
The following 2 mounting possibilities are available depending on the number of sensors used.

Mounting with 2 sensors per seat :



3 statuses detected:
- Empty seat (grey),
- Seat occupied with seat belt not fastened (red),
- Seat occupied with seat belt fastened (green).

Mounting with 1 sensor per seat :



2 statuses detected:
- Empty seat or Seat occupied with seat belt fastened (green),
- Seat occupied with seat belt not fastened (red).

Wiring of the screen

The display will simply be positioned on the dashboard towards the driver and connected to a 5V USB port **after contact**.

⚠	The screen should not be positioned directly under the windscreen to avoid overheating in summer.

Access to the device settings

The brightness setting can be accessed at any time by the user by swiping up and down on the touch screen.

Perform the reverse operation (from bottom to top) to return to the main menu.

Other functions can be accessed at any time by the user by sliding your finger from right to left on the screen.

Note: Access to the settings is locked for the end user by a PIN code which will be given to you by your distributor.

Sensor settings

Go to the "**Settings**" section.
Enter the PIN code you have been given.
Click on the area for which you want to add a sensor.

Each of the fields correspond respectively to the elements represented graphically according to the available space:

Sensor positioned on the belt

Sensor positioned on the seat

Option 1
Click on the corresponding text field to directly enter the number of the installed sensor using the touch keyboard.

Option 2
Click on the button to access the search for sensors in range for this field within a radius of 50m.

It is advisable to wait for the end of the search for about 10 seconds, until the "Scan in progress" indication disappears. The list of sensors is then automatically reordered in alphabetical order.

If you are not within range of the sensor, you must use Possibility 1.

If only one sensor is used for the belt and seat, please enter the same sensor number in both fields.

The return to the previous menus is done by clicking on the back button .

The information entered is automatically saved in the device's memory.
The system is immediately functional according to the entered parameters when returning to the main menu.

Note: The display will depend on the number of benches set.

Power management

The display will start automatically as soon as its 5V USB input is powered.
Therefore, when the vehicle is started.

The start-up time is about 10s before processing the information from the sensors.

It will automatically switch off 8s after this power is removed.
Therefore, when the vehicle is switched off.

Depending on the operation of the USB port(s) available on the vehicle, the display may continue to operate with the vehicle switched off if the USB power supply continues for a few minutes after switching off the engine.

⚠	**This system is not designed for permanent operation.** In the case of a permanent USB power supply, a 5V converter positioned after the contact should be added to power the display.

Sensor battery level management

The lifetime of wireless sensors is estimated at 6-9 years at 23°C.

When the autonomy of a sensor is detected to be less than 15%, a warning light and the corresponding seat are announced in orange for replacement of the sensor(s).

Accessories

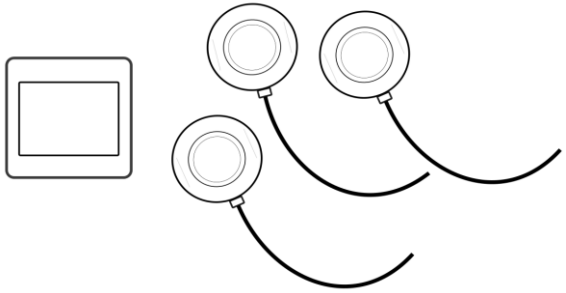
Description	Reference
Additional Bluetooth sensor	E8188
Pre-programmed spare touchscreen	E8189

Technical features

Screen
Supply voltage.....5V VDC
Maximum operating temperature.....+60°C
Dimensions.....54 x 54 x 16mm

Sensors
Frequency....2.4 Ghz - Bluetooth Low Energy 4.0/4.2
Battery life.....Up to 9 years
Transmission time.....2 seconds
Water resistance.....IP68
Dimensions
P DI .....Ø 57mm / Height 18mm
Cable..... 1m

Homologations
CE (Europe)
RED Directive 2014/53/EU,
EMC Directive 2014/30/EU,
RoHS Directive 2011/65/EU



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